

Application No.: 10/756,982
Amendment Dated: May 2, 2006
Reply to Office Action of: January 10, 2006

MAT-8498US

Remarks/Arguments:

Claims 5-7 have been rejected under 35 U.S.C. § 102(e) as being anticipated by Saito (U.S. Patent No. 6,456,246). The rejection is respectfully traversed for the reasons set forth below.

Applicants' invention, as recited by claim 5, includes a feature which is neither disclosed nor suggested by Saito, namely:

... a first antenna element ...

... a second antenna element ... wherein said first and second antenna elements each have an electrical length of over 1/4 wavelength relative to a frequency band of said current ...

The Official Action rejects claim 5 based on Saito and states the following (on page 2 of the Official Action, three lines from the bottom):

... wherein said first and second antenna elements each have an electrical length of over 1/4 wavelength relative to a frequency band of said current (Saito, column 1, lines 25-32) ...

Saito at column 1, line 25 describes Fig. 16 as including half-wavelength loop antenna element 1a.

Referring to Saito, Fig. 16, half-wavelength loop antenna element 1a includes left element 5L, right element 5R and middle element 6. If elements 5L, 5R and 6 all add up to a half-wavelength then the following relationships hold;

5L = 40 mm

5R = 40 mm

6 = 80 mm

6 = $\frac{1}{4} \lambda$

5L = $\frac{1}{8} \lambda$

5R = $\frac{1}{8} \lambda$

This is also illustrated as below:

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Thus, when Applicants reviewed the portion of Saito referred to by the Official Action at column 1, lines 25-32, Applicants' claimed feature of a first antenna element and a second antenna element which each have an electrical length of over 1/4 wavelength does not exist.

Accordingly, claim 5 is patentable over Saito.

Claims 6 and 7 are patentable by virtue of their dependency on allowable claim 5.

Claims 11 and 13 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Saito in view of Hai (U.S. Patent No. 5,481,271). These claims, however, are patentable by virtue of their dependency on allowable claim 5.

In view of the amendments and arguments set forth above, the above-identified application is in condition for allowance, which action is respectfully requested.

Respectfully submitted,


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